NATIONAL COMMUNICABLE DISEASE CENTER

Vol. 17, No. 4

Week Ending January 27, 1968

U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARENTA, GA. 30333 PUBLIC HEALTH SERVICE

BUREAU OF DISEASE PREVENTION AND ENVIRONMENTAL CONTROL

CURRENT TRENDS INFLUENZA - United States

There continues to be total excess mortality, excess pneumonia and influenza mortality, and excess mortality in the group aged 65 and over in the United States; however, excess mortality appears to have reached a peak (Figure 1). Pneumonia and influenza deaths were above the epidemic threshold in all divisions except the Mountain division. This is the first week in which there has been excess mortality in the Pacific division, where the major source of excess deaths appears to be in the state of Washington. This is consistent with previous reports of influenza outbreaks in that state (MMWR, Vol. 17, No. 1) and recently received additional reports.

To date, the only states which have not officially

Current Trends Influenza - United States Preliminary Influenza Laboratory Findings Measles . . Epidemiologic Notes and Reports Follow-up Meningococcal Infection Mississippi..... Rabies in a Cat Following Vaccination with LEP Hepatitis Outbreak - Amboy, Washington Annual Surveillance Summary Meningococcal Infection International Notes Influenza 1967-68. Further Reports of Influenza-like Illness .

reported influenza-like illness to NCDC this season are Alaska, Arizona, California, Hawaii, Idaho, and Nevada. Although outbreaks of influenza-like illness have been (Continued on page 31)

TABLE I. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES (Cumulative totals include revised and delayed reports through previous weeks)

The second supplies the	4th WEE	K ENDED	MEDIAN	CUMULATIVE, FIRST 4 WEEKS			
DISEASE	JANUARY 27, 1968	JANUARY 28, 1967	1963 - 1967	1968	1967 115 13 6 79 32 138 2,830 89 6,011 235 218 17 1 1 2,047 43,290 10 13	MEDIAN 1963 - 1967	
Aseptic meningitis	29	38	27	106	115	115	
	E .	6	6	2		18	
Encephalitis primary	5	3	4	8	6	13	
"Ithropod-horno & unengoified	14	20		66	79		
Pilalitis post-infectious	er Attathorane of	12	A	32			
lepatitis infactions	81 877	30 811	851	260 3,043	138	3,103	
	45	22	4	157		9	
	541	1,972	7.060	1.817	6.011	21,879	
""""""""""""""""""""""""""""""""""""""	97	44	50	289		235	
	87	41		275		200	
	10	3	THE RESIDENCE	14			
- iipa .	4,345	120 100		17,390			
oriolityelitis total		1	1	-	1	1	
		a lime and I want	1	_	1	1	
	546	641		1,898	2.047	111222	
	11,150	12,789	10,177	42,136	43,290	36,482	
etanusularemia	4	4	4	5	10	11	
ularemia Yphoid fever	3	4	5	5	13	17	
Typhoid fever Typhus, tick-horno (Pky, Mt. Spotted fever)	ende had one	10	9	17	19	19	
Typhus, tick-borne (Rky. Mt. spotted fever). Rabies in animals		1	-	2	4	3	
in animals	89	78	81	287	283	283	

TABLE II. NOTIFIABLE DISEASES OF LOW FREQUENCY

A STATE OF THE PARTY OF THE PAR	Cum.	"我们们是我们的一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个	Cum.
Anthrax: Botulism: Leptospirosis: Tenn1 Plague: Psittacosis:	1	Rabies in man: Rubella, Congenital Syndrome: Trichinosis: Conn1 Typhus, murine: Polio, Unsp.	3

Figure 1 PNEUMONIA-INFLUENZA DEATHS IN 122 UNITED STATES CITIES 1967-1968 1,200 ALL CITIES 1,100 1,000 900 EPIDEMIC THRESHOLD 800 EXPECTED NUMBER 700 600 500 400 300 48 4 D 8 12 16 20 24 28 32 26 26 23 21 18 16 13 F M A M J J A 36 40 10 8 5 0 48 52 4 8 3 3I 28 25 2 30 27 D J WK ENDED D J 1967 1968 1965 1966 **NEW ENGLAND** W. N. CENTRAL E.N. CENTRAL 125 125 14 CITIES IO CITIES 200 100 100 150 75 100 50 DEATHS O WEEK NO. 8 12 16 20 24 28 32 36 48 52 4 44 48 52 4 1967 1968 16 20 24 28 32 12 16 20 24 28 32 44 48 52 4 1967 | 1968 NUMBER 350 125 150 E.S. CENTRAL MIDDLE ATLANTIC MOUNTAIN 8 CITIES 300 20 CITIES 8 CITIES 100 125 250 100 75 200 75 150 50 50 100 40 44 48 52 4 1967 1968 16 20 24 28 32 36 40 44 48 52 4 1967 1968 48 52 4 12 16 20 24 28 32 12 200 SOUTH ATLANTIC PACIFIC W.S. CENT 6 CITIES 13 CITIES 12 CITIES 150 150 150 100 100 100 8 12 16 20 24 28 32 36 WEEK NO. 40 44 48 52 4 1967 1968 8 12 16 20 24 28 32 48 52 4 1967 |1968 16 20 24 28 32 44 48 52 4 1967 1968

INFLUENZA - United States (Continued from front page)

reported from Colorado, Montana, New Mexico, Utah, and Wyoming, in general, activity in the Mountain division has not appeared to be as widespread as that in the eastern and central United States. In the eastern and central United States, influenza activity appears to be decreasing. In

most areas, school and industrial absenteeism has returned to normal rates.

(Reported by Respiratory Diseases Unit, Viral Diseases Section, NCDC.)

PRELIMINARY INFLUENZA LABORATORY FINDINGS

Preliminary laboratory findings of reciprocal hemagglutination inhibition tests on influenza viruses including recent isolates from the 1967-68 season indicate that the current viruses constitute a homogeneous group of strains closely related to isolates from the 1966-67 influenza season. While the newer isolates stimulate the production of broadly reacting serum antibodies, these strains do continue to show an antigenic drift away from the A2/Tai-

wan/1/64 component of the current vaccine. Their relationships to the second vaccine A2 component, A2/Japan/170/62; vary; but, in general, the recent isolates appear to be antigenically closer to this strain than to A2/Taiwan/1/64.

(Reported by the WHO International Influenza Center for the Americas, National Communicable Disease Center, Atlanta.)

INTERNATIONAL NOTES INFLUENZA - 1967-68

Further official reports of influenza activity were received by the World Health Organization from the following countries:

Norway: During November, local outbreaks of influenzalike illness occurred in western Norway. Serologic evidence of infection with A2 virus was obtained.

(Jan. 9, 1968)* - Since the beginning of January, a high incidence of influenza-like illness has been reported in Oslo. A strain of virus A2 was isolated.

(Jan. 18, 1968) - Influenza is now widespread in east Norway. Several strains of virus A2 have been isolated.

United Kingdom: (Dec. 12, 1967) — At the end of November, an outbreak of influenza-like disease was reported in a boys' boarding school in north England. Two influenza A2 strains were isolated from this outbreak. (Dec. 29, 1967) — Influenza activity was noted in London in approximately the third week of December.

(Jan. 5, 1968) — In the first week of 1968, a sharp rise in influenza deaths occurred in England and Wales. Over 50 percent of the deaths occurred in persons aged 75 years or over

Denmark (Dec. 13, 1967) — Serologic evidence of influenza A was obtained in early December from three patients in various parts of the country, although no significant increase was noted in reported clinical influenza. (Jan. 6, 1968) — In middle and late December 1967, a rise in reported cases of influenza occurred in the greater Copenhagen area. The disease was reported as generally mild.

Yugoslavia (Jan. 10, 1968) — An influenza epidemic associated with virus A2 has been reported in Croatia. In

eastern Yugoslavia no outbreaks of influenza-like disease have been reported.

Italy (Jan. 5, 1968) - An epidemic of influenza-like disease has been occurring in Rome. Two strains of influenza A2 virus have been isolated.

Netherlands (Jan. 5, 1968) - Small localized outbreaks of influenza-like illness have occurred since mid-December in the western part of the country. Strains of virus A2 have been isolated, and serologic evidence of infection with virus A has been obtained. The disease seems to be spreading to the eastern part of the country.

Federal Republic of Germany (Jan. 19, 1968) — In Niedersachsen in the past 10 days an increase in incidence of influenza-like illness in children and adults has been noted. Four strains of virus A2 were isolated.

Sweden (Jan. 15, 1968) — A slight increase in the incidence of influenza-like illness has been reported from the cities of Halsinbörg, Malmö and Göteborg, on the west coast. In three cities and in Eskilstuna serologic evidence of infection with A2 virus has been obtained in approximately 20 cases.

Switzerland (Jan. 13, 1968), Finland (Jan. 3, 1968), and France (Jan. 18, 1968) — No increases in incidence of influenza-like illness have been reported to date for this season from Switzerland, Finland, or France.

(Compiled from the Weekly Epidemiological Record, WHO, Vol. 42, Nos. 50-52 and Vol. 43, Nos. 1-4.)

^{*}Dates in parentheses refer to date of original information submitted to WHO.

FURTHER REPORTS OF INFLUENZA-LIKE ILLNESS

The following reports from the Canal Zone and Jamaica of influenza-like disease have been received by NCDC:

Conal Zone Influenza A2 — Outbreaks of influenzalike illness began in the second week of December 1967 in the Canal Zone. An A2 influenza virus was isolated. It is interesting that this is the first time the Canal Zone and the United States have noted simultaneous outbreaks of A2 influenza. The outbreaks were occurring before the annual Christmas increase in travel to and from the United States.

(Reported by Sidney B. Clark, M.D., Chief, Division of Preventive Medicine, Canal Zone Health Department, and Karl M. Johnson, M.D., Director, Middle America Research Unit, National Institutes of Health, Walter Reed Army Institute of Research, Balboa Heights, Canal Zone.)

Jamaica Influenza B — In late November and early December 1967, a number of persons with influenza-like illness were seen at the University of the West Indies hospital in Kingston, Jamaica. The illnesses consisted of fever, cough, coryza, and rather striking myalgia. In some cases, acute illness lasted as long as 1 week with cough

often persisting a second week. Hemagglutination inhibition tests demonatrated diagnostic rises against influenza B antigens in six paired sera, and diagnostic rises against A2 antigens in two paired sera; two paired sera were diagnostic for influenza B infection by complement fixation tests. The data are suggestive of influenza B activity, the first reported in the western hemisphere this season; the possibility of influenza A infection cannot be eliminated at this time. Further laboratory investigation is in progress.

Jamaica had major epidemics of A2 influenza in 1957 and 1963. Smaller focal outbreaks of A2 influenza occurred in the latter months of 1965. No major outbreaks of influenza-like illness have been observed on the island since October 1965. Influenza B has never attained epidemic proportion in Jamaica.

(Reported by Dr. Louis S. Grant, Head, Department of Microbiology, University of the West Indies, Kingston, Jamaica; Dr. Leslie Spence, Director, Trinidad Regional Virus Laboratory; Dr. C. C. Wedderburn, Chief Medical Officer, Ministry of Health, Kingston, Jamaica; and an EIS Officer.)

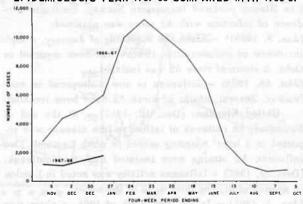
CURRENT TRENDS MEASLES

During the first 4 weeks of 1968, 1,817 cases of measles were reported to NCDC. This is less than one third of the 6,011 cases reported for the comparable 4 weeks in 1967 (Figure 2). Similarly, it is 5.7 percent of the 5-year mean (31,897) for the first 4 weeks of years 1958-62 that preceded the general availability of measles vaccine. A seasonal increase in reported measles cases is noted in this 4-week total.

Of the 541 cases of measles reported for the week ending January 27, 1968, 127 (23.5 percent) were reported from Chicago. These cases are now the subject of intensive epidemiologic investigation.

(Reported by State Services Section and Statistics Section, NCDC.)

Figure 2 REPORTED CASES OF MEASLES BY FOUR-WEEK PERIODS - UNITED STATES EPIDEMIOLOGIC YEAR 1967-68 COMPARED WITH 1966-67



EPIDEMIOLOGIC NOTES AND REPORTS FOLLOW-UP MENINGOCOCCAL INFECTION - Mississippi

Since January 19, 1968, two additional cases (case 9 on January 21 and case 10 on January 22) of meningococcal infection have occurred at a Mississippi state hospital (MMWR, Vol. 17, No. 3). Both cases, confirmed bacteriologically as Group B meningococci, occurred in residents from the same floor as the previous eight cases. Since January 15, no deaths have occurred, and since January 22, no other cases of meningococcal infection have been reported in residents either from the floor with 10 cases or

from any other building of the hospital.

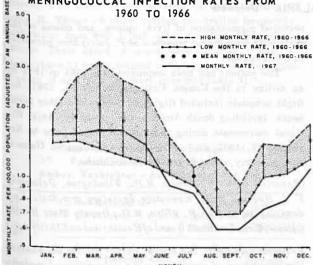
(Reported by William Jaquith, M.D., James Head, M.D., and Manning Hudson, M.D., Mississippi State Hospital, Whitfield, Mississippi; A. L. Gray, M.D., M.P.H., Executive Officer, and Durward L. Blakey, M.D., M.P.H., Director, Preventable Disease Control, Mississippi State Board of Health; and Epidemiological Services Laboratory Section, NCDC, and a team of EIS Officers.)

ANNUAL SURVEILLANCE SUMMARY MENINGOCOCCAL INFECTIONS - 1967

During 1967, 2,164 cases of meningococcal infection were reported to NCDC. This was a decrease of 36 percent from the 3,381 cases reported during 1966. The incidence rates from June through December 1967 were the lowest observed since 1960 (Figure 3), and the incidence rates for each month were lower than those for comparable months in 1966. The usual seasonal upward trend in monthly rates became apparent in October 1967, and further increases may be expected in the first quarter of 1968.

Figure 3

COMPARISON OF 1967 MONTHLY MENINGOCOCCAL INFECTION RATES WITH HIGH, LOW, AND MEAN MENINGOCOCCAL INFECTION RATES FROM



Decreases in reported cases from 1966 were noted in 1967 for all nine U.S. geographic divisions (Table 1); however, the proportion of cases reported from each division to the total number of reported cases for the year did not change significantly between the two 2 years.

Meningococcal infections among military personnel and their dependents decreased approximately 60 percent from the 1966 total of 331 cases to 131 cases in 1967. These 131 cases represent 6.1 percent of the cases reported in 1967; in contrast, in 1966, the military-associated cases comprised 9.8 percent of the reported cases.

In 1967, 367 strains of Neisseria meningitidis were submitted to NCDC for laboratory analysis. These strains

Table 1 Meningococcal Infection — United States 1966 — 1967

D:	19	066	1967			
Division	Cases	Percent	Cases	Percent		
North East	159	4.7	87	4.0		
Middle Atlantic	428	12.6	357	16.5		
East North Central	536	15.9	296	13.7		
West North Central	178	5.3	103	4.8		
South Atlantic	597	17.6	425	19.6		
East South Central	293	8.7	179	8.3		
West South Central	455	13.4	276	12.7		
Mountain	93	2.8	41	1.9		
Pacific	642	19.0	400	18.5		
U.S. Total	3,381	100.0	2,164	100.0		

had been isolated mainly from blood or spinal fluid of patients. Consistent with the findings in recent years, the predominant serogroup was group B (Table 2). Of 356 meningococcal strains subjected to sulfadiazine sensitivity tests, 157 strains (42.3 percent) were not inhibited by 1.0 mg. percent of sulfadiazine. In 1966, 40 percent of the strains tested were not inhibited by a similar concentration of sulfadiazine.

Table 2
Strains of Neisseria meningitidis Submitted to NCDC
1967*

Serogroup	Number	Percent
A A	2	0.5
B	242	66.0
C	76	20.7
D	0	0.0
X	1	0.3
Y	27	7.4
Z	8	2.2
Not typed and		
"rough" strains	11	2.9
TOTAL	367	100.0

^{*}Excludes 22 isolates presently being processed.

(Reported by the Bacterial Diseases Section, Epidemiology Program, and the Bacterial Serology Unit, Bacteriology Section, Laboratory Program, NCDC.)

EPIDEMIOLOGIC NOTES AND REPORTS RABIES IN A CAT FOLLOWING VACCINATION WITH LEP VACCINE — Pennsylvania

A cat that had been vaccinated against rables with chick-embryo low egg passage modified live virus vaccine (LEP) in September 1961, October 1964, and September 1967, developed rables in October 1967 and died. On September 29, 1967, after being vaccinated on September 7,

the cat began walking with a unilateral hind leg lameness of unexplained origin. The veterinarian could not recall into which leg he had injected the vaccine on September 7. On October 1, he examined the animal, and found it to be (Continued on page 34)

RABIES IN CAT - (Continued from page 33)

suffering from generalized posterior ataxia. The cat seemed to be in pain and was unruly when handled. Body temperature and front leg reflexes were normal. On October 4, an ascending paralysis of both hind legs began, followed by generalized paralysis, and death on October 9. A provisional diagnosis of vaccine-associated rabies was made; the diagnosis was confirmed by fluorescent antibody and mouse inoculation tests.

A veterinary helper and the cat's owner were bitten by the cat on October 1 and 3, respectively. Both persons underwent antirables treatment without any untoward effects. (Reported by E. J. Witte, V.M.D., Chief, Veterinary Public Health Section, Pennsylvania Department of Health.)

Editorial Comment: This incident emphasizes the necessity of following the manufacturer's recommendations concerning LEP vaccine. This vaccine is intended for use in dogs and cannot be given safely to any other species. It does not cause viremia and is not present in the central nervous system (CNS) of dogs after injections except rarely in very young puppies, but may be found in the CNS of other species if they become ill as a result of the vaccination. For vaccinating cats against rabies, killed vaccine or chick-embryo high egg passage vaccine (HEP) is recommended.

FATAL CASE OF MALARIA - Delaware

In the United States in 1967, only one fatal case of malaria was reported to NCDC. The patient was a 43-yearold American civilian flight engineer who arrived on November 16, 1967, in New York City from Lisbon, Portugal. At that time, he experienced high fevers, chills, and lethargy. He stayed in a hotel in New York City until November 18 when he traveled to his home in Delaware. On November 22, he was admitted to a Delaware hospital in semi-stuporous condition with persistent chills, fever, sweats, abdominal pain, diarrhea, and vomiting. His temperature was 103°F. The differential diagnoses included cholangitis, hepatitis, and cirrhosis. The hematocrit dropped from 42 percent on admission to 31 percent on November 24. During this time, the BUN increased from 33 to 82 mg. percent, and the total bilirubin from 3.6 to 10 mg. percent. Examination of peripheral blood smears on November 24 revealed a heavy infection with Plasmodium falciparum parasites. Antimalarial treatment was ordered, but the patient died within a few hours. Autopsy

revealed pigmentation of liver, spleen, and edema of the brain with widespread presence of *P. falciparum* parasites in these organs.

The patient had been employed from 1961 to 1963 by an airline in the Congo. Until September 14, 1967, his flight schedule included flights in Europe and other continents, including South America and, possibly, Asia. His travel movements during the 2-month period prior to November 16, 1967, included visits to Portuguese Guinea, and, possibly, other West African countries.

(Reported by G. K. Berger, M.D., Wilmington, Delaware; F. 1. Hudson, M.D., Executive Secretary and State Epidemiologist, and E. P. Gliwa, M.D., Deputy State Health Officer, Delaware State Board of Health; and an E18 Officer.)

Editorial Comment: The history of this patient emphasizes the importance of considering the possibility of malaria infection in patients with fever who have traveled in malarious countries.

HEPATITIS OUTBREAK - Amboy, Washington

From 1964 to September 1967, no cases of hepatitis were reported from Amboy, Washington (1960 population 1,476); however, from August 29 through December 30, 1967, 40 cases of viral hepatitis were reported from Amboy. Investigation revealed that 13 cases were related to a single private well (Well I) in Amboy, including two index cases with date of onset on August 29, and 11 cases with dates of onset between October 6 and 19 (Figure 4). The remaining 27 cases were secondary to the common source outbreak; these cases had dates of onset between November 1 and December 30.

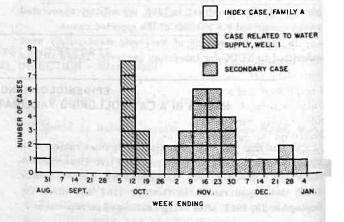
Cases Directly Related to Well I

The two index cases were a mother and her daughter (family A), living in a trailer near Well I. Shortly after onset of illness in family A, family A moved their trailer to another location. Histories obtained from the mother and daughter in family A did not reveal the source of their

Figure 4

CASES OF VIRAL HEPATITIS BY WEEK OF ONSET

AMBOY, WASHINGTON — AUGUST-DECEMBER 1967



infections. The site near Well I was vacant until September 15, when family B moved into that trailer lot. Within 5 weeks of family B's arrival, the 11 other cases of hepatitis related to Well I occurred among family B and visitors to their trailer. It is important to note that family A had no history of contact with family B or with any of the other cases related to Well I.

Of the five members of family B, four developed hepatitis from 22 to 35 days after moving into the area. A fifth case, with date of onset on October 18, occurred in a relative of family B who had visited in the trailer from September 17 to September 22. Four other cases occurred among 10 guests who attended one of two dinners given by family B on September 15 and 20. The menus served at the two dinners were different except for water. Of the six non-ill guests, four did not drink any water served at the dinners. Two other cases occurred in grandchildren of family B. These children visited the trailer frequently, drank water from Well I, but did not attend either of the dinners. Their dates of onset were October 9 and 15. Among these 11 cases related to Well I, six were less than 20 years of age, and five were over 20 (Table 3).

Table 3 Cases of Viral Hepatitis by Age and Probable Mode of Transmission Amboy, Washington — August-December 1967

Age		Related to ell A*	Secondary Cases Spread by Person-to Person Transmissio				
	Number	Cumulative Percent	Number	Cumulative Percent			
1-4	0	0	1	4			
5-9	4	36	13	52			
10-14	1	45	4	67			
15-19	1	55	4	81			
20-29	4	91	1	85			
30-39	0		3	96			
40+	1	100	1	100			
Total	11	100	27	100			

^{*}Two index cases not included.

A sanitarian who inspected Well I on October 23, 1967, found the well unsatisfactory due to its depth (15 feet), construction (hand dug), and close proximity to the septic tank (16 feet). A water sample, taken on the day of inspection, had a coliform count compatible with sewage contamination. A dead mole was found in the well, and mole tunnels were seen to enter it. The well was condemned on the day of inspection. Fluorescein dye studies conducted later demonstrated leakage of dye from the sewage system onto the ground near the well.

Secondary Cases

Among the 27 secondary cases, 22 were in persons less than 20 years of age, and 5 in persons greater than 20 years of age (Table 1) in contrast with the age distribution of cases related to Well I. Three cases occurred in families of two cases related to Well I. One of these families (family C – one original case and two secondary cases) lives in an area called Amboy Vista, a development consisting of six low rental housing units with a common water source (Well II), and an area where a high degree of social intermingling occurs among families. This was the first family to develop hepatitis in this development area.

From November 1 to December 30, 11 other cases occurred in Amboy Vista families. Of these 11 cases, eight were in children age 10 years or under and two of the remaining three cases were in adults in a household with earlier cases. A third case, a 15-year old boy, was the only case in his family. Since family C experienced the first case of hepatitis in the Amboy Vista area, attention is focused on them as a possible means of spread in this neighborhood. Although only one child of this family had overt hepatitis, the other children might have had subclinical illnesses in late October or early November (a transaminase determination was abnormal in mid-January on one of these children). Since coliform counts of water samples from Well II were negative and since the well is located 250 feet from the septic tank and at a considerably higher elevation, it appears that Amboy Vista cases resulted from person to person transmission, possibly involving anticteric or unrecognized cases in the area.

Two of the remaining secondary cases (plus one who lived in Amboy Vista) gave histories of frequent and moderately close contact with a hepatitis case in family B whose date of onset was October 12. Dates of onset of these three secondary cases were November 1, 9, and 9. Of the other 11 cases, nine were in students at Amboy School; their dates of onset ranged from November 10 to December 25. These cases had probable exposures to other ill students at the school, either to the three cases in children, directly related to Well I, or to the eight children who live in Amboy Vista. The remaining two secondary cases were the parents of one school case.

The epidemic of hepatitis which occurred in Amboy, during the later months of 1967 consisted of two parts: an initial common source outbreak related to a contaminated water supply, followed by 27 cases probably resulting from person to person transmission in households and in the school.

(Reported by Byron J. Francis, M.D., M.P.H., Head of Communicable Disease Control, Division of Epidemiology, Washington State Department of Health; D. A. Champaign, M.D., M.P.H., Health Officer, Clark-Skamania Health District, Washington; and an EIS Officer.)

Morbidity and Mortality Weekly Report

TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

FOR WEEKS ENDED

JANUARY 27, 1968 AND JANUARY 28, 1967 (4th WEEK)

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WEST SOUTH CENTRAL	3	,			2	440			100		100
Arkansas	3	1	-	5	2	1	1	1	100	89	3
Louisiana	Marin Re	EARLY THE	5000 Lan	5	ī	عملائهم	11221	1	8	8	1 2
Oklahoma		1	100	3	1			1		5 7	2
Texas	3		S Charles	100	-	1	1	1.0	23 66	69	
THE STREET, SHOWING	HE THERE IS	planing.	Agreement of the	1/50/676			1-15		00	09	
MOUNTAIN		1		141-	-	1	1,10		34	49	
Montana				-	-1	<u> </u>			4	1	
Idaho	BELL HIT	10-261	1000	12		-	mort link	-	3	3	da 🚅
Wyoming	Dec 20 Lin	10-51	Transport S	A Charles	- 64.1	1150	Designation of	POOL BUILD		7	111.
Colorado			-	-	- 30	1		10	3	3	-
New Mexico	10000	14.00				-	-		9	26	-
Arizona	51 27	1	Jan - Land	148-21	- 1/50	10 HO	CONTROL OF SERVICE		7	6	all (Figure
Utah		-	1,000						8	3	100
Nevada	THE 24	-			- 1			7	-		-
PAGENTO	41-46-		a yet at 9	1201421	1 394	TOV B	an Edmin		PERSONAL PROPERTY.	THE PERMIT	1000
PACIFIC	10	11	walls this	ALTERNATIVE TO	2	4	THE SHEET ST	51	219	158	10
Washington		-			135-155	-	A CONTRACTOR	-	24	16	- 1
Oregon	-	1	-		- me	- 1		14	9	45	
Alaska	9	9	1 ()-5.5.	11.55.34	2	4	1 74 -1 02	37	184	96	10
Hawaii	1	1	I I			-	Name and Address		-	1 - 1	-
A STATE OF THE STA	1	1			•		-	-	2	11	
Puerto Rico		Run Intel	100 mg	and or					3	4	10.3

Morbidity and Mortality Weekly Report

TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

FOR WEEKS ENDED

JANUARY 27, 1968 AND JANUARY 28, 1967 (4th WEEK) - CONTINUED

	MEA	SLES (Rube	ola)	MENINGO	COCCAL INF TOTAL	ECTIONS,	MUMPS	P	OLIOMYELI	ris	RUBELLA
AREA	CTO Sept.	Cumu l	ative		Cumulative Total Paralytic			501544			
	1968	1968	1967	1968	1968	1967	1968	1968	1968	Cum. 1968	1968
UNITED STATES	541	1,817	6,011	97	289	235	4,345	-	100 - 11		546
NEW ENGLAND	10	(1				in alsoli	V= 1	1,04	-T' H		
Maine	19	61 7	48 5	4	11	7	465 22	- 1	24.	1000	102
Hampehin-	3	3	1	2	2	_	4		11:15	4-1	6
- CTIIIOD +			4	1	ī	-	28	31 - 13	1 1 2 10	100 37-3	100
""doSachucotta	8	27	31		3	3	265	II - 13	_ J	17.12	41
MIDGE Teland	1	1	2		- 3 l - 3	- 1	53	4 - 3	- 1	10.00	20
onnecticut	7	23	5	1	5	3	93	- 19	1,0		35
MIDDLE ATLANTIC	40	208	271	2	30	37	272		L. K		62
	8	32	34		6	7	50			e nem	29
IOrb II- Chak-	25	131	68	1	2	11		4 - 6	Let - 10	100	12
Jerson	4	34	108	400	. 8	14	222	4 - 3		- 1	18
-misylvania	3	11	61	1	14	5		1 - 3	[-]ii	Line in	3
EAST NORTH CENTRAL	201	563	613	9	36	22	1,287	.1 . 12			122
	4	69	57	2	10	9	75		15 H	WARRIED TO	123
	13	88	96	1	4	3	85	- 1	TH - 1	14-17	5
41001e	128	260	62	3	7	4	176	- 1	71 - H	PH. 196-21	7
Tacillo an	11	31	161	2	13	4	375	- 1	E0 - 1		26
oconsin	45	115	237	1	2	2	576	- 1	ET- 1		64
WEST NORTH CENTRAL	7	62	218	6	21	10	335				21
			11	3	4	1	2			190.04	21
	2	23	38	-	1	2	297	of enough	-4- 4	144000	20
	2	3	8	-	4	3	1		- 1		
	2	16	74	-	1	- 11	29		- 11	- 2 - 111	1
South Dakota Nebraska.	1	3	14	1	3	1		9 - 4	- 1 - 13	-	and the same
Kansas	T==-15	3 14	73 NN	2	1 7	2 1	6			100000	Land to the land
		14	ININ	2	,	1			- 15	0.000	100
SOUTH ATLANTIC	37	143	689	17	63	44	323		- 13		37
Delaware		I	3		-	3 p. 11-14	11	-	- T-	OUNTERS.	1
	4	12	7	2	3	6	21	- 1	1		2
Virginia Columbia.	2	2 19	4 199	-	1	914	9	- II	- 1	1000	
West Virginia.	13	47	121	2	6 2	6 8	29 116		- 1	2	2
	1	3	122	5	13	9	-		12 P	1,120	19
	2	4	3	4	12	2	1	-	- 11	S. Decrine	2
Georgia.	2	2	8	2	7	4	90	0.0		Carried Section	
	10	54	222	2	19	9	46	- 1	1 - T		11
EAST SOUTH CENTRAL	12	39	599	18	24	19	293				
Kentucky	4	8	86	4	6	6	38		8.8° D	ALOSE C	19
Tennessee		15	235	3	7	7	186			-	15
	3	8	118	1	1	2	29		21- 6	-/-	
2051pp1	5	8	160	10	10	4	40	- 1	- I	17774	
WEST SOUTH CONTRACTOR	118	359	1,909	30	67	39	290	4 1		11111111	0.5
Arkansas	-	339	253	1	2	39	290		# A	2000	25
Louisiana	-	1	19	4	13	17	1		1 12 11		property.
Oklahoma	2	36	456	11	18	2	4	L - 13	1- 199		THE PARTY
**********	116	322	1,181	14	34	20	285		- 1	-	25
MOUNTATM		100	75-11	0.0110	3 (1)	A-10					
Montana. Idaho.	20	72	467	1	3	6	104	- 1	B. 2 - 11	2	22
Idaho	- 1	2	112	2 - 1	1 .	EL PERM	18	- 1-	- 11	Lake-	2
Wyoming. Colorado	4	6 17	35		-	1	14	-		J. J	
Colorado.	11	26	94	1	1	1	19 -			III Jekov	3
New Mexico	1	7	73	_	-	3	22			2-(2)-(4)	15
Utah	3	14	66	GP-1-1	1		27	- 0	1 L	er pereit	2
Utah. Nevada		7/19/2 C =)	12	- 1-	-		4	T - 6	l l- 10		_
		- 1 - 1	75	on let		1	W-1	- 1	- 1	-	100
FACIPIC	07	210	1 207	10	0.4		674		1		
Washington Oregon	87 21	310 87	1,197 677	10 4	34 6	51 1	976 255		55 B	311	135
OregonCalifornia	18	76	205	2	3	4	40	-	14 - 14	1	29
Alaet	46	133	255	4	25	44	631			11170	20 79
Alaska, Hawaii		30-1	46		-	2	30	-6-2			4
	2	14	14	-	- 1 145		20	-			3
Puerto Rico.	6	15	166			1	11				

Morbidity and Mortality Weekly Report

TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES FOR WEEKS ENDED

JANUARY 27, 1968 AND JANUARY 28, 1967 (4th WEEK) - CONTINUED

UNITED STATES	SCARLET FEVER	TETANUS		TULAREMIA		ТҮРНОІД			-BORNE . Spotted)	RABIES IN ANIMALS		
	1968	1968	Cum. 1968	1968	Cum. 1968	1968	Cum. 1968	1968	Cum. 1968	1968	Cum. 1968	
MELL ENGLAND	11,150	4	5	3	5	1	17	BILL	2	89	287	
	1,575	1200	1100	i De			1	9. "-	16 SL	1	3	
NEW ENGLAND	20	2 - 2 15 -		1.41		-	- 1		[8] 16 [7]	1	3	
New Hampshire	23	4	-12	3	100	- 1	1 S_ 1	_	- L	in the sales	2007	
Vermont	25	9-170			- 1		0.00	la - 11			23103780	
Massachusetts	233	1 2 3 4 4	0-0-0	5		TO - 11	R 5- H	-	135" 40 to	avabe	111111	
Rhode Island	119	1.55			114	- 10	B = 10	- 1	Etia - mar	anni Electi		
Connecticut	1,155	1 - 52			9-1	-	-1		P -11	100	Liver et a	
MIDDLE ATLANTIC	303	1	1		-	6.41	5	155.00	# 15 .	2	3	
New York City	14		-	-	- 1	Dr - 1	4	10.00	Te - 1	HOUSE IN	215.00	
New York, Up-State.	197	1	1		- 12	m - 11	1	100	- 10	1	2	
New Jersey	NN	15.77		1.3		-		F - 1	- 1	paper - An Tri		
Pennsylvania	92	7				35 10	100		5.54	1	1	
EAST NORTH CENTRAL	989	1	2	7	- 1	1	3	100 E	THE T	2	20	
Ohio	110	11255	1-1	-	-	1	3	SS	Charles II.	nul-way	8	
Indiana	165	9 - 10	- 4	5		S - H	13 E	733a-c II.	Brit 50 F		6	
Illinois	169	1 - 533	1	9 - 11	- 1	4 7 1	7	777	77 -1 5	1	2	
Michigan	276	1	1	-	1	- 1	- 1	est e		P-12-110	2	
Wisconsin	269		- J		4 1	-	-		- 1	1	2	
WEST NORTH CENTRAL	336	114-94	- 15	1	1	5 - 11	2	100	3 -7 (8	24	50	
Minnesota	54				>0-15	-1-	IA .	105-1	3 -5 10	5	10	
Iowa	125	1 - 15-1	-	- 13	- 1	-	15. I	48 . 1		9	16	
Missouri	5	-			- 1	5 - 3-0	2	18, 53		3	10	
North Dakota	79				- 1	- 11	10000	19 -11	200	4	8	
South Dakota	23	-	100	1	1	-	301-01			270		
Nebraska	2	-	1 3 4 E	- 372	= - 0.	- 41	- 1	10 - 1	- T/S	3	4	
Kansas	48				÷ 11.	0-15	7.1	Office 1		11 Percent	2	
SOUTH ATLANTIC	1,280	118 19		1	1	3 -	1	Rel -	2	7	31	
Delaware	12	1 - 50		-	- 1	10 - 41	F		- 115			
Maryland	368	JET ST	12.0	-	-	3 - 13	1	- 1		1000		
Dist. of Columbia	11	17.00	100		-	11	Java I	100	F - 1	and the		
Virginia	409		- 5	D- 153.3		7 - 15	- 1	100	2	7	17	
West Virginia	297	1		F	- 191		-		13.0		4	
North Carolina	29 31	1	45.4	1	1	20.74	100	3 -5			10.112	
South Carolina	14	1 199	3 6			100 H	1 7 1				3	
Georgia Florida	109	Lee.	1-1.5	2 1 6	100		137 2		197	Service or other	7	
EAST SOUTH CENTRAL	1,583	nel zesi	41 6	1.00		4 A	3	15	B. M. S.	32	113	
Kentucky	58	11.45	- 0		201	2 - 11			4 2 1	17	42	
Tennessee	1,307		1111111111		100		3			14	67	
Alabama	128	NA 1 30		2	- 11	5-11	1	100	5 1	1	4	
Mississippi	90	1 - 25	1 3 5	1 1	- II	3 - 11	- 12	2 3	10 ASS.	100	131-17-2	
WEST SOUTH CENTRAL	1,061	1 04%	1	1.0		0E _ 10	100 F. II	233	411.5	15	52	
Arkansas	5	781			4 -46	2 - 1	77	-		1	4	
Louisiana		11.00	1- 1		2 (-11)	30 - 31	Su-	of -	2 6 1	1	4	
Oklahoma Texas	63 993	1	1	-		\$ 4E		\$\$17-		7	18 26	
MOUNTAIN	1,832 53	11.57	33.7	1	2			Sec.	10 5 7 3	2	4	
MontanaIdaho	136	TW.	15 13 19	THE PHE			15	8 1		March St.	1000	
Wyoming	202	distribution of	100					51	14. B 15	TO THE PARTY	district.	
Colorado	1,032	HLAV		1	1	340	Maria I	100	10 10	and the same	OTTO INCIDEN	
New Mexico	220	1	10 20 6	0.0		2 2	0100	3.2	0.50		DE THE	
Arizona	72	1.55	1200	N MULE			10 -	25 -		2	4	
Utah	117		E1+3		1		1	1 5	5 - 8	THE STATE OF THE	0.12	
Nevada	4 THE . T	Moles &		188	3 34						TILE.	
PACIFIC	2,191	1 454	1		91-12	93.E- []	2	97.0	75.3	4	11	
Washington	1,010	100	- 11.5	1 11/2	34-117	8 11	tot:	110	127 E			
Oregon	186				0.75		-	200	3 2		11	
California	921 20	1 450	1	تا زيان طاء		in the	2		A Design	4	Territor and the	
Alaska Hawaii	54	LL W.	10.8				9	11.	F 14	district.	1000	
Puerto Rico	21	JE 2052	1 1			2.4	150	31 1 2 1	2 1/1			

Week No.

TABLE IV. DEATHS IN 122 UNITED STATES CITIES FOR WEEK ENDED JANUARY 27, 1968

(By place of occurrence and week of filing certificate. Excludes fetal deaths)

the recent of the second	All Ca	uses	Pneumonia Under			All Ca	uses	Pneumonia	Under
Area	All Ages	65 years and over	and Influenza All Ages	1 year All Causes	Area	All Ages	65 years and over	and Influenza All Ages	l year All Causes
NEW ENGLAND:	964	648	81	46	SOUTH ATLANTIC:	1,565	883	99	79
Boston, Mass	290	183	23	20	Atlanta, Ga	209	100	10	14
Bridgeport, Conn	66	47	10	2	Baltimore, Md	371	221	22	23
Cambridge, Mass	48	33	Merk	4	Charlotte, N. C	55	25	5	1
Fall River, Mass	43	32	3	1	Jacksonville, Fla	112	61	3	8
Hartford, Conn Lowell, Mass	68 51	33 31	3 6	5	Miami, Fla Norfolk, Va	110	63	2	1
Lynn, Mass	27	19			Richmond, Va	49 153	25 87	5 11	9
New Bedford, Mass	31	25	1		Savannah, Ga	49	23	4	3
New Haven, Conn	65	42	2	5	St. Petersburg, Fla	104	94	6	2
Providence, R. I	94	68	10	3	Tampa, Fla	91	57	13	2
Somerville, Mass Springfield, Mass	13	9	3	2	Washington, D. C	206	94	12	9
Waterbury, Conn	56 48	37 36	10	_	Wilmington, Del	56	33	6	5
Worcester, Mass	64	53	10	1	EAST SOUTH CENTRAL:	978	563	93	34
Marie Control of the second		-0 H (40 H)	4000	LuSus	Birmingham, Ala	135	66	7	7
MIDDLE ATLANTIC:	3,926	2,400	248	179	Chattanooga, Tenn	91	54	21	4
Albany, N. Y	50	32	2	4	Knoxville, Tenn	81	59	10	-
Buffalo, N. Y	33	25	1	1	Louisville, Ky Memphis, Tenn	235	145	25	8
Camden, N. J	154 42	88 23	3 6	8	Mobile, Ala	193	99	10	5
Elizabeth, N. J	45	28	5	2	Montgomery, Ala	54 43	28 25	1 5	3
Erie, Pa	48	28	3	2	Nashville, Tenn	146	87	14	7
Jersey City, N. J	95.	67	13	2			-0205		- 93
Newark, N. J	144	77	9	6	WEST SOUTH CENTRAL:	1,632	924	165	76
New York City, N. Y Paterson, N. J	1,921	1,167	107	7.5	Austin, Tex	54	37	14	
Philadelphia, Pa	50 575	25 316	8 8	5 40	Baton Rouge, La Corpus Christi, Tex	61	34	10	3
Pittsburgh, Pa	292	187	18	11	Dallas, Tex	39 211	19 118	19	10
Reading, Pa	69	50	10	-	El Paso, Tex	48	27	1	4
Rochester, N. Y	136	91	27	10	Fort Worth, Tex	112	68	11	7
Schenectady, N. Y	31	24	2	-	Houston, Tex	266	137	20	7
Syracuse, N. Y.	53	35	7	4	Little Rock, Ark	111	80	14	4
Trenton, N. J	51 69	32 48	3 8	1 4	New Orleans, La Oklahoma City, Okla	214	106	17	16
Utica, N. Y	28	22	5	1	San Antonio, Tex	149 161	88	10	9
Yonkers, N. Y	40	35	3	1	Shreveport, La	83	50	11	3
Page					Tulsa, Okla	123	80	21	2
EAST NORTH CENTRAL:	2,990	1,709	151	156	MOUNTA TV				40.15
Akron, OhioCanton, Ohio	53	34	-	3	MOUNTAIN: Albuquerque, N. Mex	512	317	27	30
Chicago, Ill	41 795	28 440	32	32	Colorado Springs, Colo.	40	26	6	7
Cincinnati, Ohio	221	143	11	8	Denver, Colo	38 141	26 81	7 5	9
Cleveland, Ohio	232	117	16	24	Ogden, Utah	19	17	1	-
Columbus, Ohio	139	73	2	13	Phoenix, Ariz	123	68	5	9
Dayton, Ohio	115	66	9	6	Pueblo, Colo	26	18	1	12012
Detroit, Mich Evansville, Ind	403	222	12	27	Salt Lake City, Utah Tucson, Ariz	62	37	2	5
Flint, Mich	61 49	37 27	5	2	Il lucson, Ariz.	63	44		3
Fort Wayne, Ind	64	38	6	3	PACIFIC:	1,918	1,196	80	70
Gary, Ind	43	17	10	3 2	Berkeley, Calif	31	24	1	-
Grand Rapids, Mich	54	42	9	1-1	Fresno, Calif	67	41	3	3
Indianapolis, Ind	185	104	4	9	Glendale, Calif	36	25	2	-
Madison, Wis Milwaukee, Wis	66 131	33 78	2	3	Honolulu, Hawaii Long Beach, Calif	47	28	-	1
Peoria, Ill.	53	28	6	9	Los Angeles, Calif	92	53	2	3
Rockford, Ill	29	19	5	1	Oakland, Calif	461 108	62	11	14
South Bend, Ind	41	24	3	1	Pasadena, Calif	49	37		1
Toledo, Ohio	137	95	7	3	Portland, Oreg	138	94	3	6
Youngstown, Ohio	78	44	2	2	Sacramento, Calif	64	38	2	2
WEST NORTH CENTRAL.	1 043	722	21	20	San Diego, Calif	111	62	8	5
Des Moines, Iowa	1,043 77	723 53	71 10	22	San Francisco, Calif	211	127	8	11
Duluth, Minn	23	14	4	5 -	San Jose, Calif Seattle, Wash	44 306	25 194	2 21	8
Kansas City, Kans	44	27	5	4	Spokane, Wash	93	69	10	5
Kansas City, Mo	183	135	7	i	Tacoma, Wash	60	43	3	1
Lincoln, Nebr	35	25	2	-					
Minneapolis, Minn.	149	99	3	2	Total	15,528	9,363	1,015	692
Omaha, Nebr.	81	51	7	3	Estimated expected no.	13.376	7.756	615	646
St. Louis, Mo St. Paul, Minn	305	206	15	6		ulative To		provious	nake
Wichita, Kans	75 71	61 52	14	1	including report	er collect	TOUR LOL	breatons Me	EKS
	/1	1 32	. 14	1	All Causes, All Ages			61,757	7
					All Causes, Age 65 and				
					Pneumonia and Influenza				

EDITOR

INTERNATIONAL NOTES QUARANTINE MEASURES

Immunization Information for International Travel 1967-68 edition-Public Health Service Publication No. 384

Page 88

Under Chicago, Illinois, United Air Lines Medical Department, O'Hara Field Station, 60010, Clinic Hours,

Delete: By Appointment

Insert: Friday, 10 a.m. to 11 a.m., by appointment

Page 89

Add:

City and State Monroe, La. 71201

Quachita Parish Health Unit Center

> 2913 DeSiard Street Telephone 325-0454

Clinic Hours Wednesday 1 to 3 p.m.

Fee None

Page 90

Under Rochester, Minnesota, Mayo Clinic, Clinic Hours,

Delete: Tuesday, 11 a.m., by appointment

Insert: By appointment only

THE MORBIDITY AND MORTALITY WEEKLY REPORT, WITH A CIRCULATION OF 17,000, IS PUBLISHED AT THE NATIONAL COMMUNICABLE DISEASE CENTER, ATLANTA, GEORGIA

DIRECTOR, NATIONAL COMMUNICABLE DISEASE CENTER SENCER, M.D.

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A.D. LANGMUIR, M.D.

CHIEF, STATISTICS SECTION

JDA L. SHERMAN, M.S.

1

MICHAEL B. GREGG, M.D.

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ATLANTA, GEORGIA 30333

ATTN: THE EDITOR

MORBIDITY AND MORTALITY WEEKLY REPORT

NOTE: THE DATA IN THIS REPORT ARE PROVISIONAL AND ARE BASED ON WEEKLY TELEGRAMS TO THE NCDC BY THE INDIVIDUAL STATE HEALTH DEPARTMENTS. THE REPORTING WEEK CONCLUDES ON SATURDAY; COMPILED DATA ON A NATIONAL BASIS ARE RELEASED ON THE SUCCEEDING FRIDAY.

